# *Project Baseline Summary Report*

Data Source: **EM CDB** Report Number: **GEN-01b**

Operations/Field Office: **Oakland** Print Date: **3/9/2000**

Site Summary Level: **Energy Technology Engineering Center** HQ ID: **0291**

Project **OK-042 / ETEC Waste Management**

## General Project Information

### Project Description Narratives

**Purpose, Scope, and Technical Approach:**

Definition of Scope: The activities at ETEC involve the operations of two RCRA-permitted facilities (HWMF and RMHF).

Activities at the HWMF are to allow for the safe and compliant storage, treatment and off-site disposal of sodium (hazardous) waste.

Activities at the RMHF are to allow for the safe and compliant: (1) storage and ultimate off-site disposal of approximately 7.5 cubic meters of transuranic and mixed transuranic waste; (2) storage, limited treatment and off-site disposal of the on-going inventory of mixed low level waste (MLLW) that has been generated from D&D activities; and (3) storage, treatment and off-site disposal of LLW resulting from D&D activities.

Technical Approach: Waste management activities included for this project include operations at the HWMF and RMHF and involves the storage, treatment, packaging, shipping and disposal of wastes generated from EM decontamination and decommissioning activities ( Oakland Site Technology Need No. 15).

Operations at the HWMF include hazardous waste storage, treatment and disposal of sodium wastes (hazardous waste) generated at various facilities at ETEC. Treatment activities include the size reduction of large components, oxidation of sodium metal, hydrolysis of resulting sodium oxides ( Oakland Site Technology Need No. 15).

Operations at the RMHF include:

a. Transuranic and mixed transuranic storage and off-site disposal at the Waste Isolation Pilot Plant (WIPP). There is no planned treatment of TRU/MTRU prior to off-site disposal ( Oakland Site Technology Need No. 19). This activity is highly dependent upon the timely opening of the WIPP facility.
b. Mixed low level waste (MLLW) storage, limited treatment and off-site disposal. These activities will be in accordance with the ETEC Site Treatment Plan (STP) as required by the Federal Facilities Compliance Act (FFCAct).
c. Low level waste (LLW) storage, treatment and off-site disposal. Treatment activities include the evaporation of radioactive water. Off-site disposal will include the Nevada Test Site (NTS), Hanford and any other DOE-approved commercial site.

**Project Status in FY 2006:**

Waste Management activities are expected to be complete by FY2007.

**Post-2006 Project Scope:**

There will be no waste management activities after FY2007.

**Project End State**

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Project **OK-042 / ETEC Waste Management**

## Project Description Narratives

All of the hazardous, radioactive and mixed waste activities are expected to be complete by FY2007.

**Cost Baseline Comments:**

ETEC has developed a Multi-Year Program Plan (MYPP) that details the schedule, budget and technical aspects of the EM program at ETEC for FY99 and Fy00. Included in this document is the budget, technical and schedule estimates for the EM-30 Waste Management program. These estimates are developed by Cost Account Managers (CAMs) and then reviewed by DOE/OAK cost estimation specialists. The CAMs have received guidance from DOE/OAK in terms of how to prepare technical scope, schedule, milestone and resource needs. The data provided by the CAMs were then consolidated to provide higher level cost baselines in the form of the MYPP. Please note that cost estimates were collected in current year dollars and did not include contingency.

On October 10, 1997, ETEC completed the "Cost Estimates for Facility Operations and Maintenance" for EM operations at ETEC and includes Waste Management operations at ETEC. This cost estimate roughly follows the methodology listed above for the MYPP; however, the Cost Estimate serves as a quantifiable approach to document scope, schedule and cost requirements of waste management operations from FY97 through FY06. FY06 is the ending date of EM-30 operations at ETEC.

**Safety & Health Hazards:**

Safety and health (S&H) hazards associated with the functional categories of treatment, storage and disposal of wastes at the RMHF generated from D&D activities are related to radiological and chemical exposure during waste handling activities. Exposure to radiological and chemical hazards poses greatest risk to workers and the environment.

For the HWMF, hazards associated with the functional areas of treatment and storage of sodium wastes generated from D&D activities are related to chemical exposure and potential overpressure events resulting from the treatment of sodium wastes. These exposures pose the greatest risk to the worker, and minimally to the environment or the public. No radioactive waste is managed at this facility.

The waste management program at ETEC is part of an integral and cross-cutting S&H effort for all of ETEC EM activities. Rocketdyne has dedicated staff of various S&H disciplines that identify and analyze the hazards associated with the PBS work scope, as well as provide preventative measures to mitigate their impacts on the worker, the environment and the public. These S&H activities are necessary in order to conduct programs safely and compliantly. Activities that have been implemented in the past and continue presently include:

- Completion of assessments and make recommendations (to management, DOE and/or health/safety teams) to any new activity, equipment or operation involving waste at any of the two EM-30 facilities (the RMHF and HWMF).
- Review and evaluate SOP`s, written health and safety guidance and regulatory reports.
- Implement any engineering safeguards and procedural guidelines necessary to eliminate, control and mitigate hazards to personnel, the environment and local residents.
- Review environmental regulations and documents to understand and analyze impact on waste management operations.

**Safety & Health Work Performance:**

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Project **OK-042 / ETEC Waste Management**

## Project Description Narratives

The ETEC EM-30 PBS (OAK 0291) provides for activities to ensure readiness to perform work, measures used to monitor adequacy of safety controls and mechanisms to identify unforeseen S&H project hazards. The S&H activities are used to coordinate, direct, integrate and control work performance across multiple functional categories, including treatment, storage and disposal at the RMHF and HWMF. Examples of activities used to ensure safe and compliant operations are as follows:

- Facility Safety Analysis Documents and operational documents that are developed and prepared to identify hazards and risks associated with facility operations. These documents are developed and maintained as the primary facility safety documents to ensure that the risk to the worker and the public will not exceed the level deemed safe through regulations, DOE orders or guidance/policy. Without these procedures, work would be conducted without the necessary safeguards, leading to potentially serious worker injury.
- Standard Operating Procedures (SOP`s) are prepared for all operations, including waste management operations and facilities. These procedures are designed to provide instructions in conducting an operation to ensure the required endpoint is achieved and accomplished safely. Lack of SOP`s will place workers at added safety and health risk on a daily basis and jeopardizes successful completion of the operation.
- Facility and equipment maintenance is routinely executed to ensure a safe and compliant workplace per DOE directives, laws and regulations. Without this activity, facilities would degrade and become unreliable, creating unsafe conditions and exposing workers to added risk of injury.
- Readiness Reviews are conducted prior to the start up of a new or modified facility or operation. These reviews are conducted with various disciplines including S&H.

S&H categories indirectly funded through EM-30 are all represented in the PBS.

The listed S&H categories in table D.2.2 are funded indirectly by EM-30 and, therefore, not included in the Direct Costs table.

**PBS Comments:**

Current contamination at the site is a continual source of irritation to the general public and stakeholders. The site has the attention of nuclear activists and has been the focus of a great deal of media attention. Active cleanup of the site is improving the perception of the SSFL (of which ETEC is a portion of).

**Baseline Validation Narrative:**

In February 1995, DOE/OAK conducted an Independent Cost Estimate (ICE) of Building 029 and 133 operations (the Hazardous Waste Management Facility). This ICE was conducted by a subcontractor hired to validate the technical and budgetary scope of the operations of the HWMF. The finding of the ICE indicated that the difference between DOE/OAK's subcontractor cost estimate and the ETEC budget submittal disagreed by less than 5%.

ETEC is finalizing a Multi-Year Program Plan that will quantify the costs and define the scope of EM-30 operations at ETEC for FY98 and FY99.

On October 10, 1997, ETEC completed the "Cost Estimates for Facility Operations and Maintenance" for EM operations at ETEC and includes Waste Management operations at ETEC. This cost estimate serves as a quantifiable approach to document scope, schedule and cost requirements of waste management operations from FY97 through FY06, which is the ending date of EM-30 operations at ETEC.

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Project **OK-042 / ETEC Waste Management**

## General PBS Information

**Project Validated?** Yes **Date Validated:** 2/1/1997

**Has Headquarters reviewed and approved project?** No

**Date Project was Added:** 12/1/1997

**Baseline Submission Date:** 7/13/1999

**FEDPLAN Project?** Yes

**Drivers:**

| CERCLA | RCRA | DNFSB | AEA | UMTRCA | State | DOE Orders | Other |
|---|---|---|---|---|---|---|---|
| N | Y | N | Y | N | Y | Y | N |

## Project Identification Information

**DOE Project Manager:** Robert Alvord

**DOE Project Manager Phone Number:** 510-637-1628

**DOE Project Manager Fax Number:** 510-637-1646

**DOE Project Manager e-mail address:** robert.alvord@oak.doc.gov

**Is this a High Visibility Project (Y/N):**

## Planning Section

### Baseline Costs (in thousands of dollars)

| | 1997-2006 Total | 2007-2070 Total | 1997-2070 Total | 1997 | Actual 1997 | 1998 | Actual 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PBS Baseline (current year dollars) | 36,305 | 1,500 | 37,805 | 2,208 | 2,538 | 3,882 | 3,882 | 2,815 | 3,500 | 3,500 | 3,200 | 3,400 | 4,100 | 4,500 | 5,200 |
| PBS Baseline (constant 1999 dollars) | 33,844 | 1,263 | 35,107 | 2,208 | 2,538 | 3,882 | 3,882 | 2,815 | 3,408 | 3,338 | 2,989 | 3,111 | 3,674 | 3,949 | 4,470 |
| PBS EM Baseline (current year dollars) | 36,305 | 1,500 | 37,805 | 2,208 | 2,538 | 3,882 | 3,882 | 2,815 | 3,500 | 3,500 | 3,200 | 3,400 | 4,100 | 4,500 | 5,200 |

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Project **OK-042 / ETEC Waste Management**

**Baseline Costs (in thousands of dollars)**

| | 1997-2006 Total | 2007-2070 Total | 1997-2070 Total | 1997 | Actual 1997 | 1998 | Actual 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PBS EM Baseline (constant 1999 dollars) | 33,844 | 1,263 | 35,107 | 2,208 | 2,538 | 3,882 | 3,882 | 2,815 | 3,408 | 3,338 | 2,989 | 3,111 | 3,674 | 3,949 | 4,470 |

| | 2007 | 2008 | 2009 | 2010 | 2011-2015 | 2016-2020 | 2021-2025 | 2026-2030 | 2031-2035 | 2036-2040 | 2041-2045 | 2046-2050 | 2051-2055 | 2056-2060 | 2061-2065 | 2066-2070 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PBS Baseline (current year dollars) | 1,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PBS Baseline (constant 1999 dollars) | 1,263 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PBS EM Baseline (current year dollars) | 1,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PBS EM Baseline (constant 1999 dollars) | 1,263 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Baseline Escalation Rates**

| 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00% | 0.00% | 0.00% | 2.70% | 2.10% | 2.10% | 2.10% | 2.10% | 2.10% | 2.10% | 2.10% | 2.10% | 2.10% |

| 2010 | 2011-2015 | 2016-2020 | 2021-2025 | 2026-2030 | 2031-2035 | 2036-2040 | 2041-2045 | 2046-2050 | 2051-2055 | 2056-2060 | 2061-2065 | 2066-2070 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.10% | 2.10% | 2.10% | 2.10% | 2.10% | 2.10% | 2.10% | 2.10% | 2.10% | 2.10% | 2.10% | 2.10% | 2.10% |

## Project Reconciliation

**Project Completion Date Changes:**

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## Project Reconciliation

**Previously Projected End Date of Project:** 9/6/2006

**Current Projected End Date of Project:** 9/30/2007

**Explanation of Project Completion Date Difference (if applicable):**

Completion date is 9/30/2007. Difference reflects additional costs attributed to activities associated with the disposal of TRU wastes, especially the remote-handled TRU.

## Project Cost Estimates (in thousands of dollars)

| | | | | | |
|---|---|---|---|---|---|
| **Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):** | 38,385 | **Actual 1997 Cost:** | 2,538 | **Actual 1998 Cost:** | 3,882 |
| **Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):** | 31,965 | **Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):** | | | 863 |
| **Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):** | 32,828 | | | | |

## Project Cost Changes

| | Cost Adjustments | Reconciliation Narratives |
|---|---|---|
| **Cost Change Due to Scope Deletions (-):** | | |
| **Cost Reductions Due to Efficiencies (-):** | 3,811 | Improvements in waste disposal costs and decontamination techniques |
| **Cost Associated with New Scope (+):** | | |
| **Cost Growth Associated with Scope Previously Reported (+):** | | |
| **Cost Reductions Due to Science & Technology Efficiencies (-):** | | |
| **Subtotal:** | 29,017 | |
| **Additional Amount to Reconcile (+):** | 0 | Total costs reflect the negotiated price of the new contract |
| **Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):** | **29,017** | |

## Milestones

| Milestone/Activity | Field Milestone Code | Original Date | Baseline Date | Legal Date | Forecast Date | Actual Date | EA | DNFSB | Mgmt. Commit. | Key Decision | Intersite |
|---|---|---|---|---|---|---|---|---|---|---|---|
| End of TRU Waste | OK-042-27 | | 1/26/2005 | | | | | | | | |
| Project Mission Complete | OK-042-13 | | 9/30/2007 | | | | | | | | |

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## Milestones

| Milestone/Activity | Field Milestone Code | Original Date | Baseline Date | Legal Date | Forecast Date | Actual Date | EA | DNFSB | Mgmt. Commit. | Key Decision | Intersite |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Shipment of Chrome Salt Cores (ET-W019) STP wastestream | OK-042-11 | | 9/1/1999 | 9/1/1999 | | | Y | | | | |
| Shipment of Lab Reagent Waste (ET-W020) STP wastestream | OK-042-09 | | 9/1/1999 | 9/1/1999 | | | Y | | | | |
| Shipment of Mercury Light Bulbs (ET-W026) STP wastestream | OK-042-10 | | 9/1/1999 | 9/1/1999 | | | Y | | | | |
| Start of TRU Waste | OK-042-24 | | 10/1/2002 | | | | | | | | |
| Project Start Date | | | 10/1/1990 | | | | | | | | |

## Milestones - Part II

| Milestone/Activity | Field Milestone Code | Critical Decision | Critial Closure Path | Project Start | Project End | Mission Complete | Tech Risk | Work Scope Risk | Intersite Risk | Cancelled | Milestone Description |
|---|---|---|---|---|---|---|---|---|---|---|---|
| End of TRU Waste | OK-042-27 | | Y | | | | 4 | 5 | 5 | | |
| Project Mission Complete | OK-042-13 | | | | Y | Y | | | | | |
| Shipment of Chrome Salt Cores (ET-W019) STP wastestream | OK-042-11 | | | | | | | | | | |
| Shipment of Lab Reagent Waste (ET-W020) STP wastestream | OK-042-09 | | | | | | | | | | |
| Shipment of Mercury Light Bulbs (ET-W026) STP wastestream | OK-042-10 | | | | | | | | | | |
| Start of TRU Waste | OK-042-24 | | Y | | | | 4 | 5 | 5 | | |
| Project Start Date | | | | Y | | | | | | | |

## Performance Measure Metrics

| Category/Subcategory | Units | 1997-2006 Total | 2007-2070 Total | 1997-2070 Total | Actual Pre-1997 | Planned 1997 | Actual 1997 | Planned 1998 | Planned 1999 | Planned 2000 | Planned 2001 | Planned 2002 | Planned 2003 | Planne 20( |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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**Performance Measure Metrics**

| Category/Subcategory | Units | 1997-2006 Total | 2007-2070 Total | 1997-2070 Total | Actual Pre-1997 | Planned 1997 | Actual 1997 | Planned 1998 | Planned 1999 | Planned 2000 | Planned 2001 | Planned 2002 | Planned 2003 | Planne 20( |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TRU** | | | | | | | | | | | | | | |
| **Treatment** | M3 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | | | | | | | |
| **TRU** | | | | | | | | | | | | | | |
| **Storage** | M3 | | | | | | | | | | | | | |
| **TRU** | | | | | | | | | | | | | | |
| **Ship. to WIPP** | M3 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | | | | | | | |
| **MLLW** | | | | | | | | | | | | | | |
| **Treatment** | M3 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | | | | | | | |
| **MLLW** | | | | | | | | | | | | | | |
| **Storage** | M3 | | | | | | | | | | | | | |
| **MLLW** | | | | | | | | | | | | | | |
| **On-Site Disp.** | M3 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | | | | | | | |
| **MLLW** | | | | | | | | | | | | | | |
| **Comm. Disp.** | M3 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | | | | | | | |
| **MLLW** | | | | | | | | | | | | | | |
| **Ship to DOE Disp.** | M3 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | | | | | | | |
| **LLW** | | | | | | | | | | | | | | |
| **Treatment** | M3 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | | | | | | | |
| **LLW** | | | | | | | | | | | | | | |
| **Storage** | M3 | | | | | | | 122.70 | 71.70 | 46.00 | 46.00 | 21.00 | 21.00 | 6.( |
| **LLW** | | | | | | | | | | | | | | |
| **Comm. Disp.** | M3 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | | | | | | | |

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## Performance Measure Metrics

| Category/Subcategory | Units | 1997-2006 Total | 2007-2070 Total | 1997-2070 Total | Actual Pre-1997 | Planned 1997 | Actual 1997 | Planned 1998 | Planned 1999 | Planned 2000 | Planned 2001 | Planned 2002 | Planned 2003 | Planne 20( |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LLW** | | | | | | | | | | | | | | |
| **Ship to DOE Disp.** | M3 | 2,484.10 | 0.00 | 2,484.10 | 0.00 | | 0.00 | 50.40 | 101.00 | 366.70 | 366.00 | 127.00 | 275.00 | 358.( |
| **Rem. Waste** | | | | | | | | | | | | | | |
| **Disposed** | M3 | 16,530.32 | 0.00 | 16,530.32 | 0.00 | | 0.00 | 33.55 | 447.87 | 1,645.09 | 2,007.47 | 2,097.57 | 1,833.97 | 2,130.( |

| Category/Subcategory | Units | Planned 2004 | Planned 2005 | Planned 2006 | Planned 2007 | Planned 2008 | Planned 2009 | Planned 2010 | Planned 2011 - 2015 | Planned 2016 - 2020 | Planned 2021 - 2025 | Planned 2026 - 2030 | Planned 2031 - 2035 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TRU** | | | | | | | | | | | | | |
| **Treatment** | M3 | | | | | | | | | | | | |
| **TRU** | | | | | | | | | | | | | |
| **Storage** | M3 | | | | | | | | | | | | |
| **TRU** | | | | | | | | | | | | | |
| **Ship. to WIPP** | M3 | | | | | | | | | | | | |
| **MLLW** | | | | | | | | | | | | | |
| **Treatment** | M3 | | | | | | | | | | | | |
| **MLLW** | | | | | | | | | | | | | |
| **Storage** | M3 | | | | | | | | | | | | |
| **MLLW** | | | | | | | | | | | | | |
| **On-Site Disp.** | M3 | | | | | | | | | | | | |
| **MLLW** | | | | | | | | | | | | | |
| **Comm. Disp.** | M3 | | | | | | | | | | | | |
| **MLLW** | | | | | | | | | | | | | |
| **Ship to DOE Disp.** | M3 | | | | | | | | | | | | |

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| Category/Subcategory | Units | Planned 2004 | Planned 2005 | Planned 2006 | Planned 2007 | Planned 2008 | Planned 2009 | Planned 2010 | Planned 2011 - 2015 | Planned 2016 - 2020 | Planned 2021 - 2025 | Planned 2026 - 2030 | Planned 2031 - 2035 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LLW Treatment** | M3 | | | | | | | | | | | | |
| **LLW Storage** | M3 | 6.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **LLW Comm. Disp.** | M3 | | | | | | | | | | | | |
| **LLW Ship to DOE Disp.** | M3 | 358.00 | 124.00 | 716.00 | | | | | | | | | |
| **Rem. Waste Disposed** | M3 | 2,130.07 | 3,079.13 | 3,255.60 | | | | | | | | | |

| Category/Subcategory | Units | Planned 2036 - 2040 | Planned 2041 - 2045 | Planned 2046 - 2050 | Planned 2051 - 2055 | Planned 2056 - 2060 | Planned 2061 - 2035 | Planned 2066 - 2070 | Exceptions | Lifecycle Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **TRU Treatment** | M3 | | | | | | | | | 0.00 |
| **TRU Storage** | M3 | | | | | | | | | |
| **TRU Ship. to WIPP** | M3 | | | | | | | | | 0.00 |
| **MLLW Treatment** | M3 | | | | | | | | | 3.00 |
| **MLLW Storage** | M3 | | | | | | | | | |
| **MLLW On-Site Disp.** | M3 | | | | | | | | | 60.00 |

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| Category/Subcategory | Units | Planned 2036 - 2040 | Planned 2041 - 2045 | Planned 2046 - 2050 | Planned 2051 - 2055 | Planned 2056 - 2060 | Planned 2061 - 2035 | Planned 2066 - 2070 | Exceptions | Lifecycle Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **MLLW** | | | | | | | | | | |
| **Comm. Disp.** | M3 | | | | | | | | | 2.00 |
| **MLLW** | | | | | | | | | | |
| **Ship to DOE Disp.** | M3 | | | | | | | | | 0.00 |
| **LLW** | | | | | | | | | | |
| **Treatment** | M3 | | | | | | | | | 0.00 |
| **LLW** | | | | | | | | | | |
| **Storage** | M3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| **LLW** | | | | | | | | | | |
| **Comm. Disp.** | M3 | | | | | | | | | 55.00 |
| **LLW** | | | | | | | | | | |
| **Ship to DOE Disp.** | M3 | | | | | | | | | 4,900.70 |
| **Rem. Waste** | | | | | | | | | | |
| **Disposed** | M3 | | | | | | | | | 16,048.90 |